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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/812,783	03/15/2001	Seiichi Nakamura	04329.2535	9959		
22852 75	22852 7590 06/30/2004			EXAMINER		
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER			CZEKAJ, DAVID J			
LLP 1300 I STREET, NW			ART UNIT	PAPER NUMBER		
WASHINGTON, DC 20005			2613			
			DATE MAILED: 06/30/2004	, 9		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application	Ma	Applicant(s)			
	Application	No.				
	09/812,783		NAKAMURA ET AL.			
Office Action Summary	Examiner		Art Unit			
	Dave Czekaj		2613			
The MAILING DATE of this community Period for Reply	cation appears on the co	ver sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNI - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comm - If the period for reply specified above is less than thirty (30) - If NO period for reply is specified above, the maximum state - Failure to reply within the set or extended period for reply Any reply received by the Office later than three months a earned patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no event, I unication.)) days, a reply within the statutory ututory period will apply and will ex will, by statute, cause the applicati	however, may a reply be tim	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1) Responsive to communication(s) file	d on					
	 ?b)⊠ This action is non-	-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-19</u> is/are pending in the a 4a) Of the above claim(s) is/ar 5)□ Claim(s) is/are allowed. 6)⊠ Claim(s) <u>1-19</u> is/are rejected. 7)□ Claim(s) is/are objected to. 8)□ Claim(s) are subject to restrict	e withdrawn from consi					
Application Papers						
9) The specification is objected to by the 10) The drawing(s) filed on 15 March 200 Applicant may not request that any object Replacement drawing sheet(s) including 11) The oath or declaration is objected to	01 is/are: a) accepted ac	neld in abeyance. See if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) ☒ Notice of References Cited (PTO-892) 2) ☒ Notice of Draftsperson's Patent Drawing Review (P 3) ☒ Information Disclosure Statement(s) (PTO-1449 or Paper No(s)/Mail Date 2. 3.	PTO/SB/08) 5)	Interview Summary Paper No(s)/Mail Da Notice of Informal P Other:				

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DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities:

On page 12, line 25, the examiner understood "encoder 404" to be "encoder 304".

On page 14, line 18, the examiner understood "encode module 304" to be "encode module 502".

On page 15, line 22, the examiner understood "step S225" to be "step S226".

On page 18, line 4, the examiner understood "thee" to be "the".

On page 19, line 19, the examiner could not find input frame 502 in the corresponding figure.

On page 20, line 17, the examiner understood "step S225" to be "step S236".

On page 27, line 25, the examiner understood "module 703" to be "module 705".

On page 29, line 30, the examiner understood "target frame rate 80" to be "target frame rate 802".

Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States

only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-3, 5, 7-9, 12-14, and 16-19 are rejected under 35 U.S.C. 102(e) as being anticipated by Hasegawa (6751405).

Regarding claims 1, 12, and 17, Hasegawa discloses an apparatus that relates to a video recording apparatus in which compression of video is performed by a software process (Hasegawa: column 1, lines 6-10). This apparatus comprises "coding video data" (Hasegawa: figure 1, item 4, wherein the video compressing portion or encoder codes the video data) and "controlling the coding to maintain a predetermined frame rate" (Hasegawa: figure 1, items 1 and 2, wherein the timer and frame drop control portion control the coding, column 7, lines 1-11, wherein the predetermined frame rate is 1 GOP (15 frames) per 0.5 seconds).

Regarding claims 2, 8, 13, and 18, Hasegawa discloses "detecting the processing time required fro the coding and controlling the coding based on a detected processing time and the predetermined frame rate" (Hasegawa: figures 1-2, column 6, lines 30-64, wherein detecting the processing time for encoding is the process of initiating a timer before the compression and stopping the timer after compression, controlling the coding is the process of dropping frames so the predetermined frame rate is sustained).

Regarding claims 3, 9, and 14, Hasegawa discloses "controlling a motion vector detection in the coding" (Hasegawa: figure 1, item 3, wherein the motion vector detection is performed by the motion detecting portion, column 6, lines 10-

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14, wherein the controlling is controlling the motion detecting portion to perform the process of dropping frames).

Regarding claims 5 and 19, Hasegawa discloses "filtering the video data prior to the coding wherein the controlling comprises controlling the filtering so that the predetermined frame rate is maintained" (Hasegawa: figure 1, item 1, wherein the filter is the frame drop control portion which serves to drop, or filter, frames so that a frame rate is maintained).

Regarding claims 7 and 16, note the examiners rejection for claims 1 and 5.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 4 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hasegawa (6751405) in view of Komiya et al. (6192078), (hereinafter referred to as "Komiya").

Regarding claims 4 and 10, note the examiners rejection for claim 1, and in addition, claims 4 and 10 differ from claim 1 in that claims 4 and 10 further require the controlling to comprise controlling a search range or search precision of a block search in the motion vector detection. Komiya teaches that controlling the search range of a block search improves motion vector detection precision

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(Komiya: column 3, lines 57-64, wherein the controlling is selecting the small area, the search range is the search area). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to take the apparatus disclosed by Hasegawa and add the search area control taught by Komiya in order to obtain an apparatus that more precisely calculates motion vectors.

6. Claims 6, 11, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hasegawa (6751405) in view of Kawahara (6393393).

Regarding claims 6, 11, and 15, note the examiners rejection for claim 1, and in addition, claims 6, 11, and 15 differ from claim 1 in that claims 6, 11, and 15 further require detecting a load of the CPU and controlling the coding based on the load. Kawahara teaches that knowing the load of the CPU allows for optimal grouping for encoding (Kawahara: figure 7b, column 11, lines 28-55). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to take the apparatus disclosed by Hasegawa and add the CPU load monitoring taught by Kawahara in order to obtain an apparatus that operates more efficiently by performing optimal grouping.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

US-6115420

09-2000

Wang, Albert S.

US-6434196

08-2002

Sethuraman et al.

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US-5757421	05-1998	Kato et al.
US-5926226	07-1999	Proctor et al.
US-6549576	04-2003	Moriyoshi, Tatsuji
US-5926574	07-1999	Nishikawa et al

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dave Czekaj whose telephone number is (703) 305-3418. The examiner can normally be reached on Monday - Friday 9 hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Kelley can be reached on (703) 305-4856. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DJC

GIMS PHILIPPE RIMARY EXAMINER